FIG.1

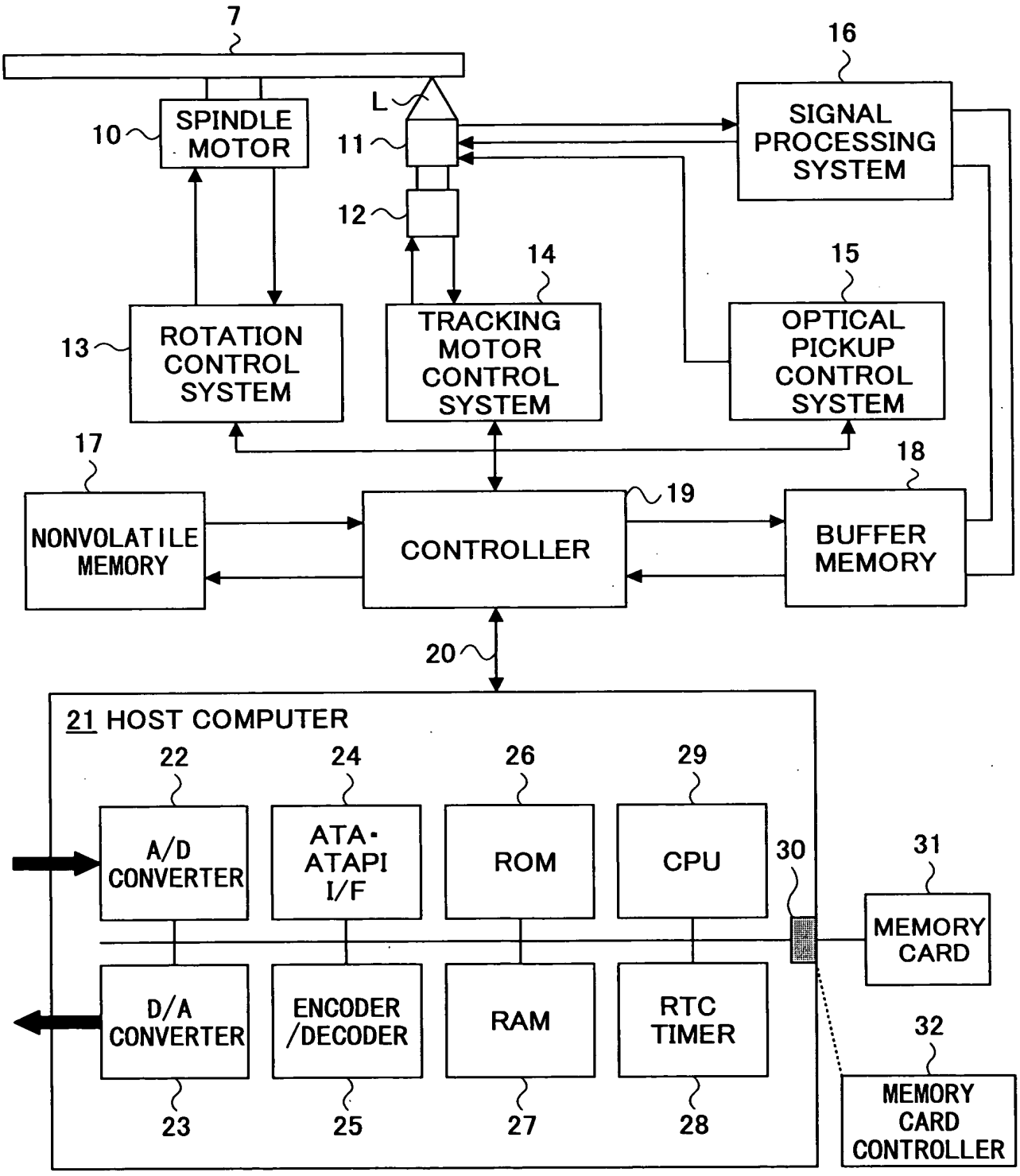

7
16
SPINDLE MOTOR
10
L
11
12
SIGNAL PROCESSING SYSTEM
14
15
13
ROTATION CONTROL SYSTEM
TRACKING MOTOR CONTROL SYSTEM
OPTICAL PICKUP CONTROL SYSTEM
17
18
19
NONVOLATILE MEMORY
CONTROLLER
BUFFER MEMORY
20
21 HOST COMPUTER
22
24
26
29
A/D CONVERTER
ATA-ATAPI I/F
ROM
CPU
30
31
MEMORY CARD
D/A CONVERTER
ENCODER /DECODER
RAM
RTC TIMER
32
MEMORY CARD CONTROLLER
23
25
27
28

FIG.2

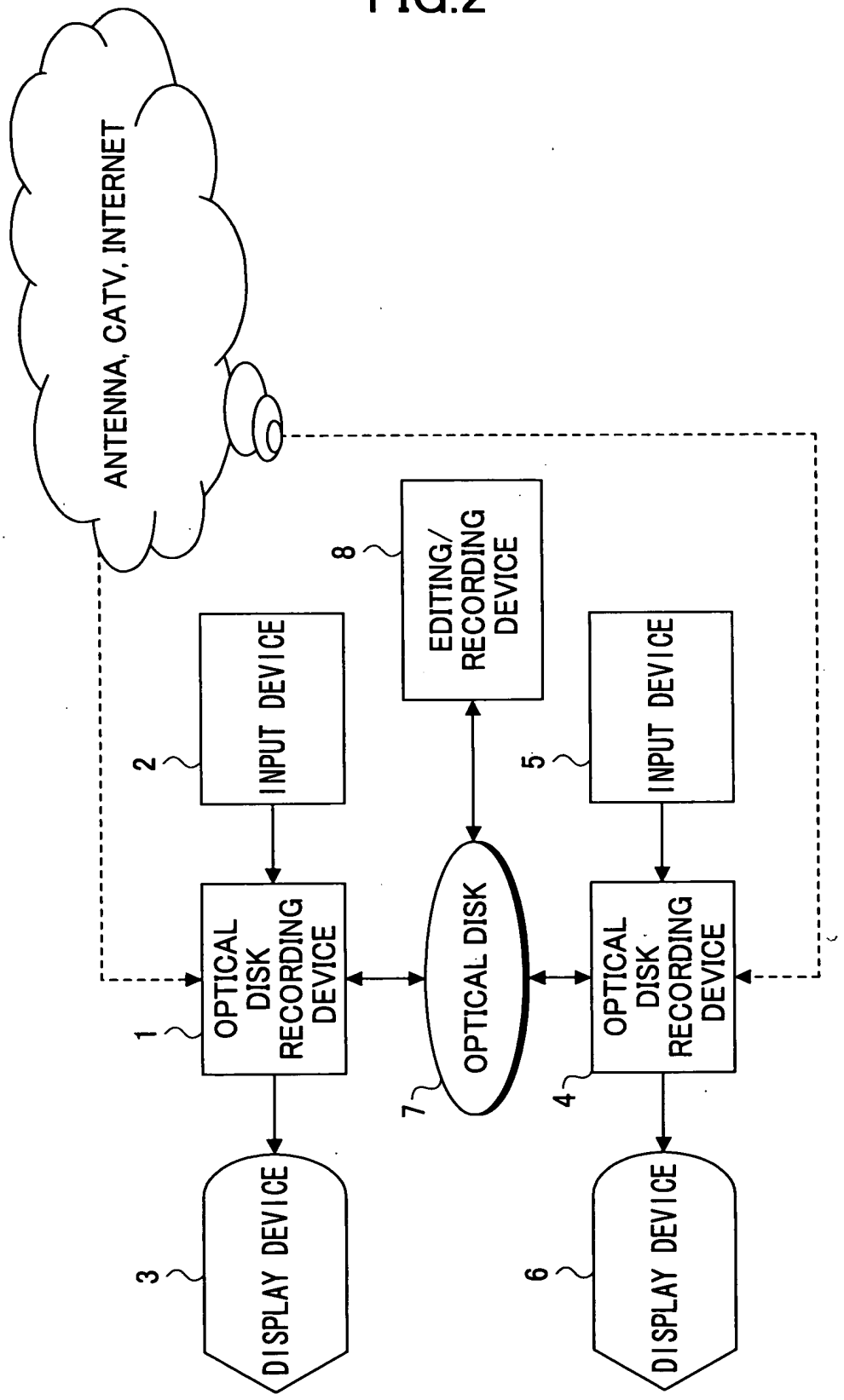

ANTENNA, CATV, INTERNET
8
EDITING/ RECORDING DEVICE
2
INPUT DEVICE
5
INPUT DEVICE
1
OPTICAL DISK RECORDING DEVICE
OPTICAL DISK
7
4
OPTICAL DISK RECORDING DEVICE
3
DISPLAY DEVICE
6
DISPLAY DEVICE

FIG.3

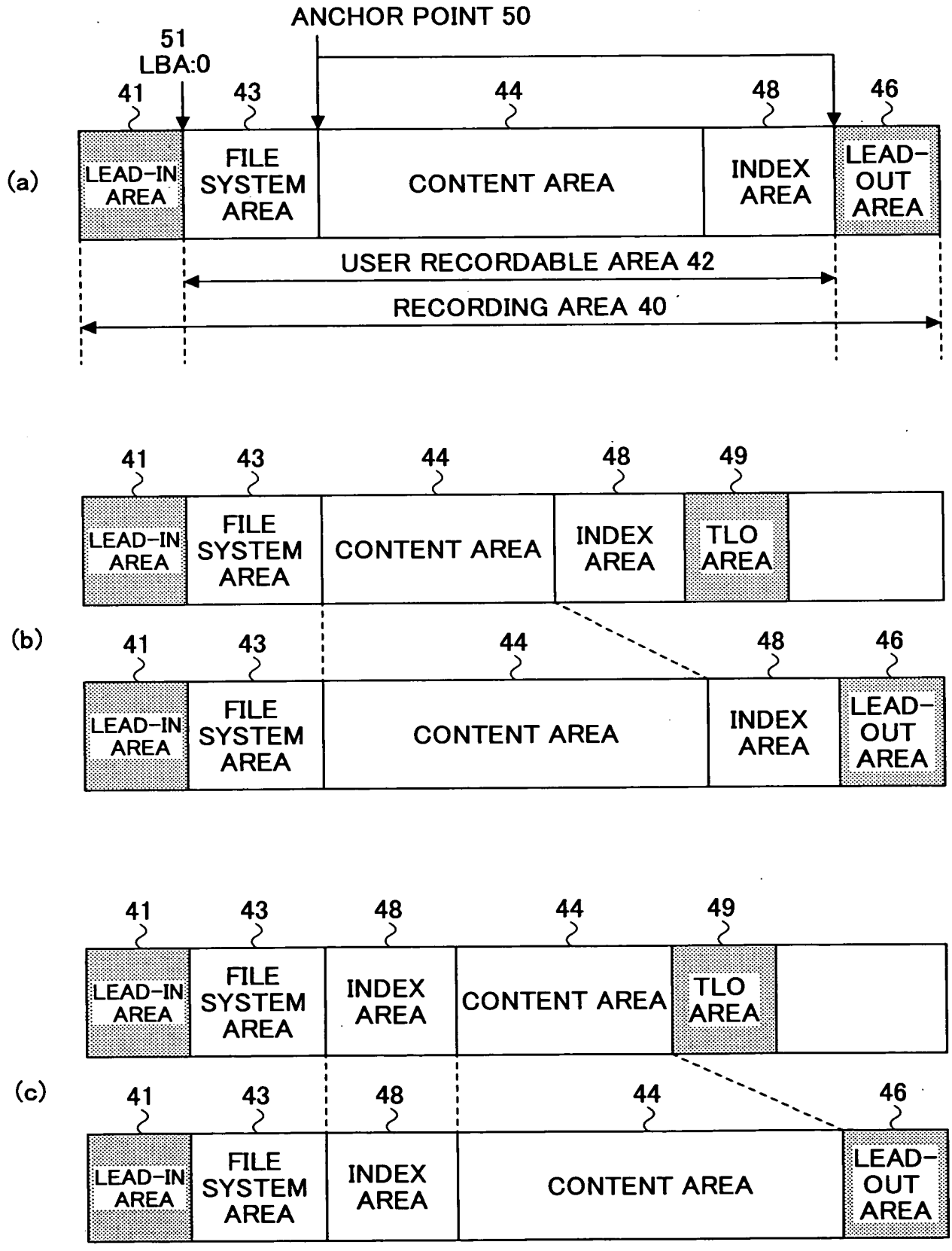

ANCHOR POINT 50
51
LBA:0
41
43
44
48
46
(a)
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
INDEX AREA
LEAD-OUT AREA
USER RECORDABLE AREA 42
RECORDING AREA 40
41
43
44
48
49
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
INDEX AREA
TLO AREA
(b)
41
43
44
48
46
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
INDEX AREA
LEAD-OUT AREA
41
43
48
44
49
LEAD-IN AREA
FILE SYSTEM AREA
INDEX AREA
CONTENT AREA
TLO AREA
(c)
41
43
48
44
46
LEAD-IN AREA
FILE SYSTEM AREA
INDEX AREA
CONTENT AREA
LEAD-OUT AREA

FIG.4

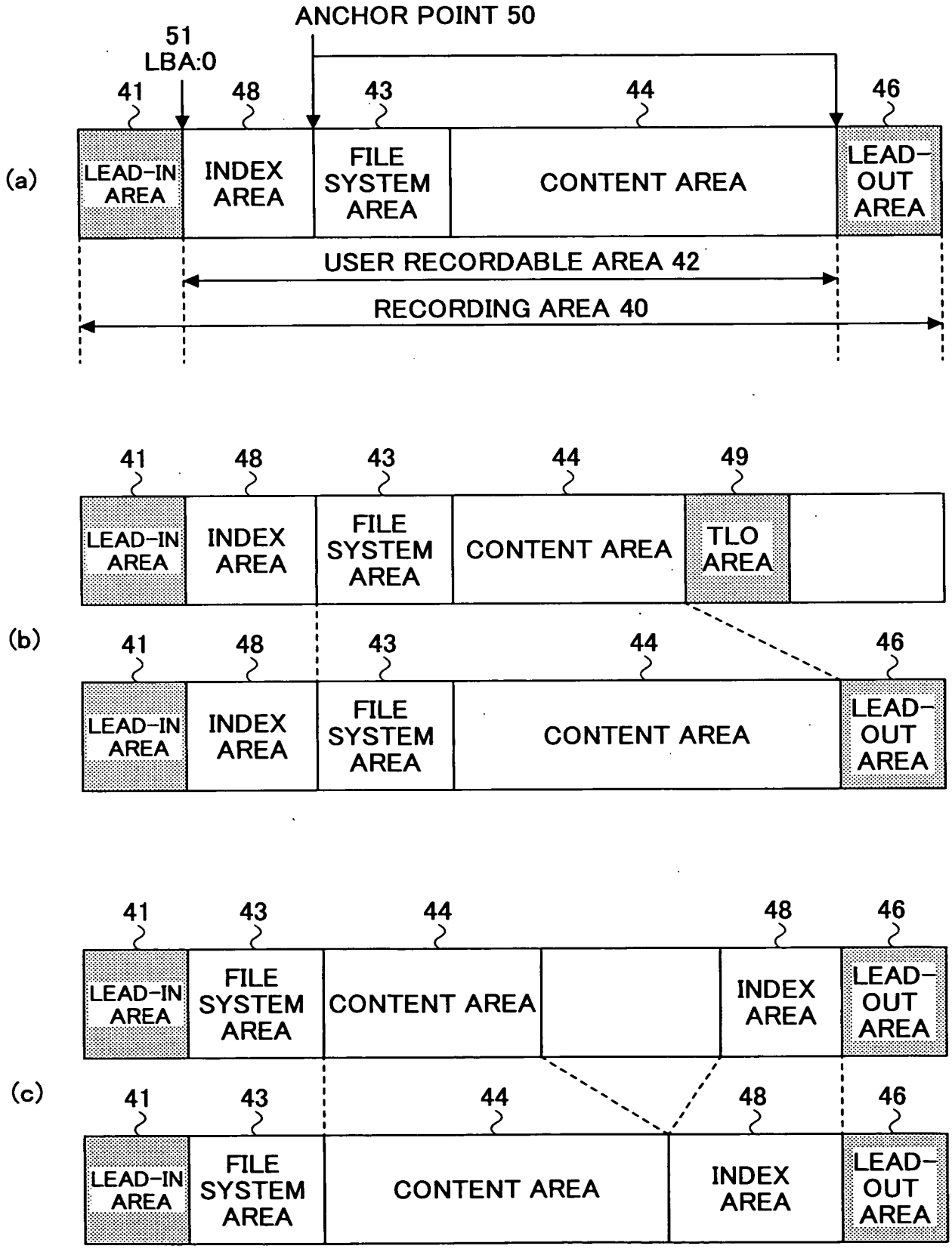

(a)
ANCHOR POINT 50
51
LBA:0
41
48
43
44
46
LEAD-IN AREA
INDEX AREA
FILE SYSTEM AREA
CONTENT AREA
LEAD-OUT AREA
USER RECORDABLE AREA 42
RECORDING AREA 40
(b)
41
48
43
44
49
LEAD-IN AREA
INDEX AREA
FILE SYSTEM AREA
CONTENT AREA
TLO AREA
41
48
43
44
46
LEAD-IN AREA
INDEX AREA
FILE SYSTEM AREA
CONTENT AREA
LEAD-OUT AREA
(c)
41
43
44
48
46
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
INDEX AREA
LEAD-OUT AREA
41
43
44
48
46
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
INDEX AREA
LEAD-OUT AREA

FIG.5

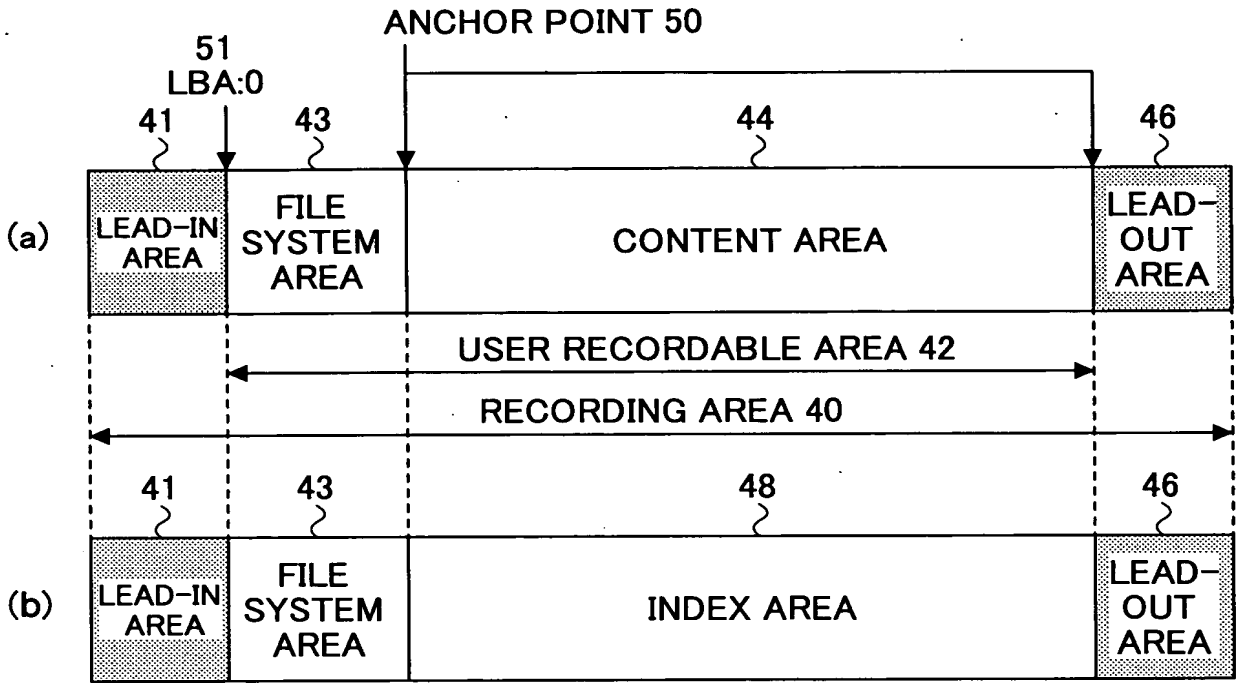

ANCHOR POINT 50
51
LBA:0
41
43
44
46
(a)
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
LEAD-OUT AREA
USER RECORDABLE AREA 42
RECORDING AREA 40
41
43
48
46
(b)
LEAD-IN AREA
FILE SYSTEM AREA
INDEX AREA
LEAD-OUT AREA

FIG.6

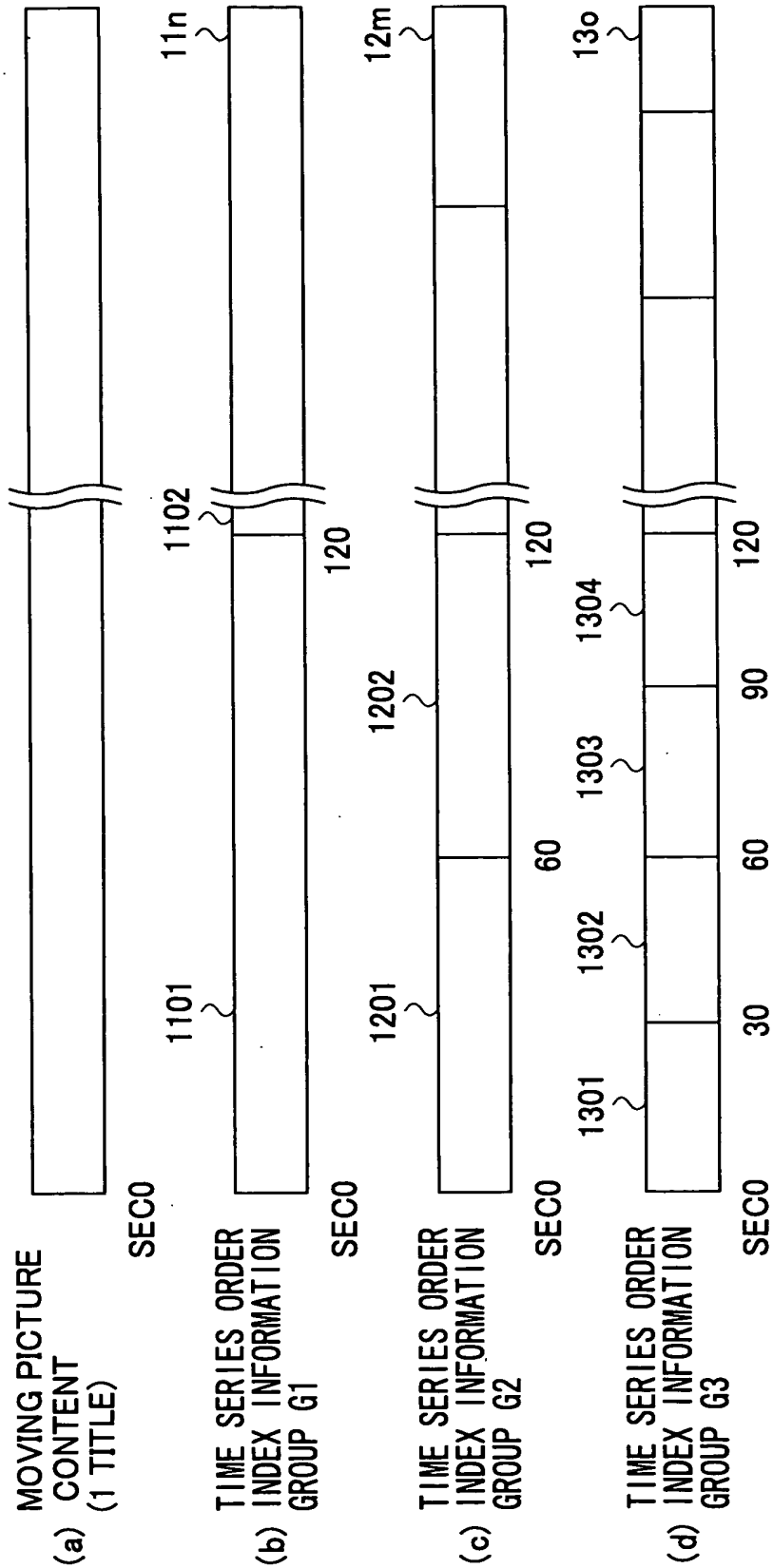

(a) MOVING PICTURE CONTENT (1 TITLE)
SEC0
(b) TIME SERIES ORDER INDEX INFORMATION GROUP G1
1101
1102
11n
120
SEC0
(c) TIME SERIES ORDER INDEX INFORMATION GROUP G2
1201
1202
12m
60
120
SEC0
(d) TIME SERIES ORDER INDEX INFORMATION GROUP G3
1301
1302
1303
1304
13o
30
60
90
120
SEC0

FIG.7

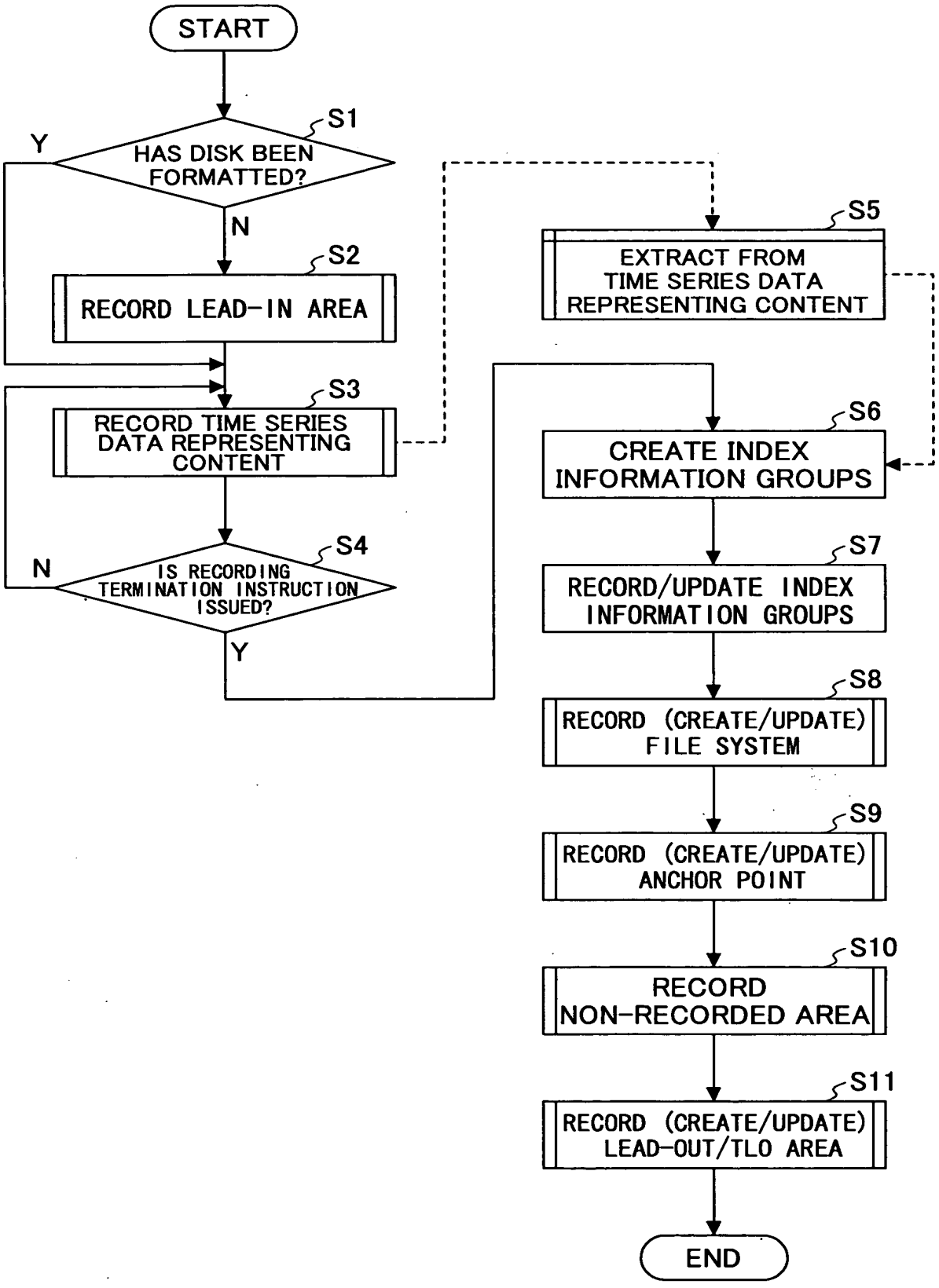

START
S1
HAS DISK BEEN FORMATTED?
Y
N
S2
RECORD LEAD-IN AREA
S3
RECORD TIME SERIES DATA REPRESENTING CONTENT
S4
IS RECORDING TERMINATION INSTRUCTION ISSUED?
N
Y
S5
EXTRACT FROM TIME SERIES DATA REPRESENTING CONTENT
S6
CREATE INDEX INFORMATION GROUPS
S7
RECORD/UPDATE INDEX INFORMATION GROUPS
S8
RECORD (CREATE/UPDATE) FILE SYSTEM
S9
RECORD (CREATE/UPDATE) ANCHOR POINT
S10
RECORD NON-RECORDED AREA
S11
RECORD (CREATE/UPDATE) LEAD-OUT/TLO AREA
END

FIG.8

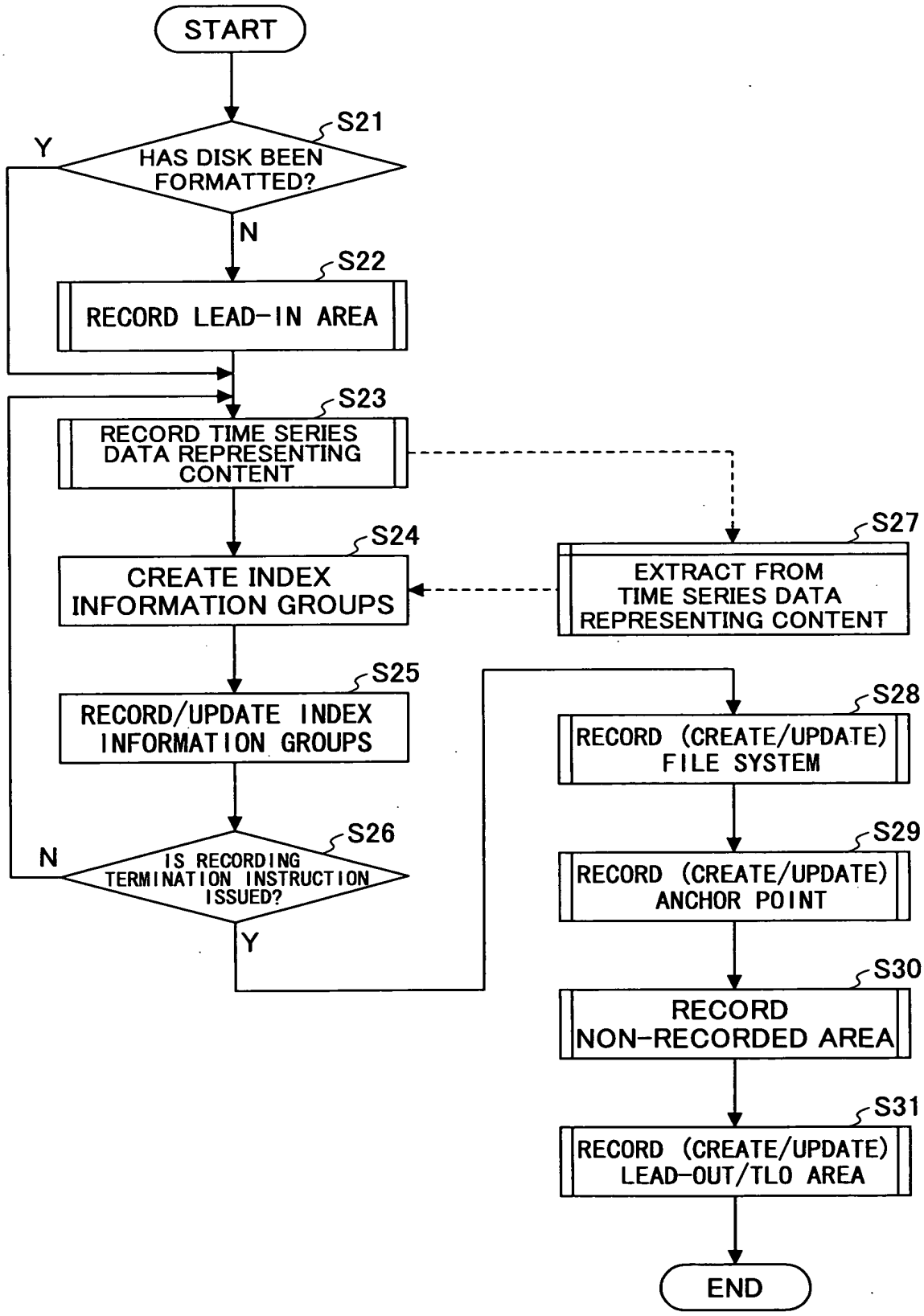

START
S21
HAS DISK BEEN FORMATTED?
Y
N
S22
RECORD LEAD-IN AREA
S23
RECORD TIME SERIES DATA REPRESENTING CONTENT
S24
CREATE INDEX INFORMATION GROUPS
S25
RECORD/UPDATE INDEX INFORMATION GROUPS
S26
IS RECORDING TERMINATION INSTRUCTION ISSUED?
N
Y
S27
EXTRACT FROM TIME SERIES DATA REPRESENTING CONTENT
S28
RECORD (CREATE/UPDATE) FILE SYSTEM
S29
RECORD (CREATE/UPDATE) ANCHOR POINT
S30
RECORD NON-RECORDED AREA
S31
RECORD (CREATE/UPDATE) LEAD-OUT/TLO AREA
END

FIG.9

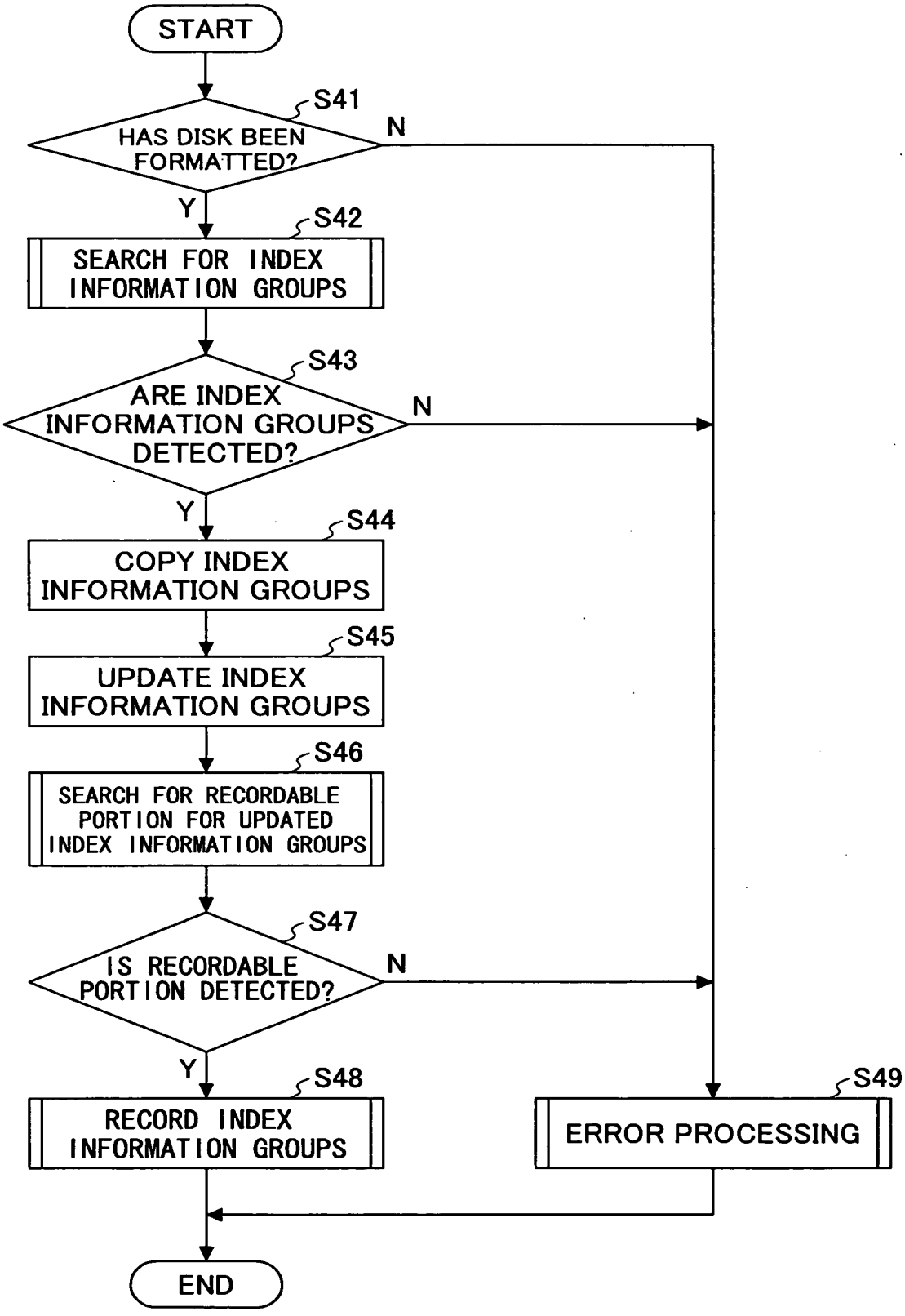
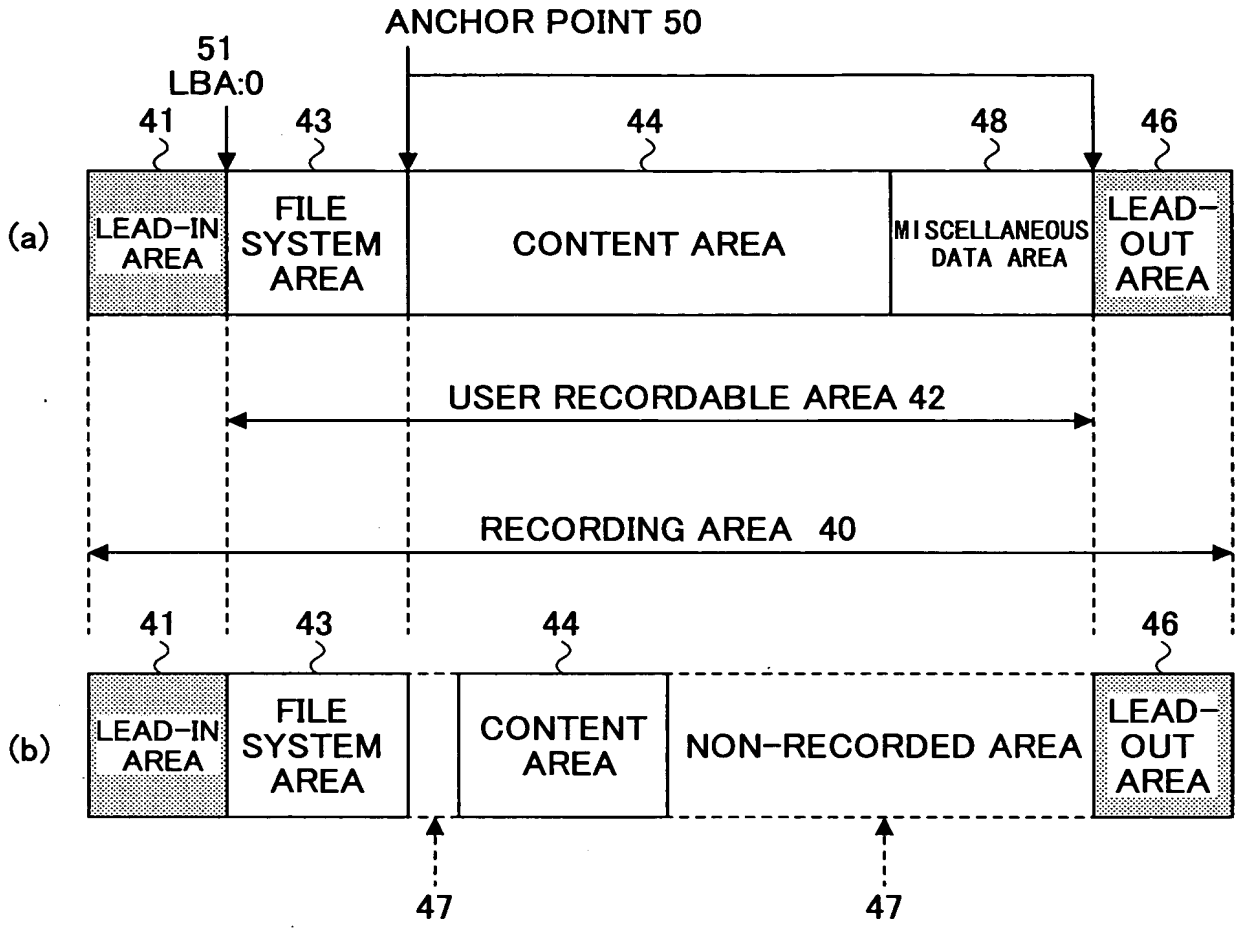

START
S41
HAS DISK BEEN FORMATTED?
N
Y
S42
SEARCH FOR INDEX INFORMATION GROUPS
S43
ARE INDEX INFORMATION GROUPS DETECTED?
N
Y
S44
COPY INDEX INFORMATION GROUPS
S45
UPDATE INDEX INFORMATION GROUPS
S46
SEARCH FOR RECORDABLE PORTION FOR UPDATED INDEX INFORMATION GROUPS
S47
IS RECORDABLE PORTION DETECTED?
N
Y
S48
RECORD INDEX INFORMATION GROUPS
S49
ERROR PROCESSING
END

FIG.10


ANCHOR POINT 50
51
LBA:0
41
43
44
48
46
(a)
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
MISCELLANEOUS DATA AREA
LEAD-OUT AREA
USER RECORDABLE AREA 42
RECORDING AREA 40
41
43
44
46
(b)
LEAD-IN AREA
FILE SYSTEM AREA
CONTENT AREA
NON-RECORDED AREA
LEAD-OUT AREA
47
47